No. 785,786. PATENTED MAR. 28, 1905.

E. WOLFF.

MACHINE FOR MAKING CORRUGATED WOOD SLIVER.

APPLICATION FILED MAR. 25, 1904.

Fig. 1.

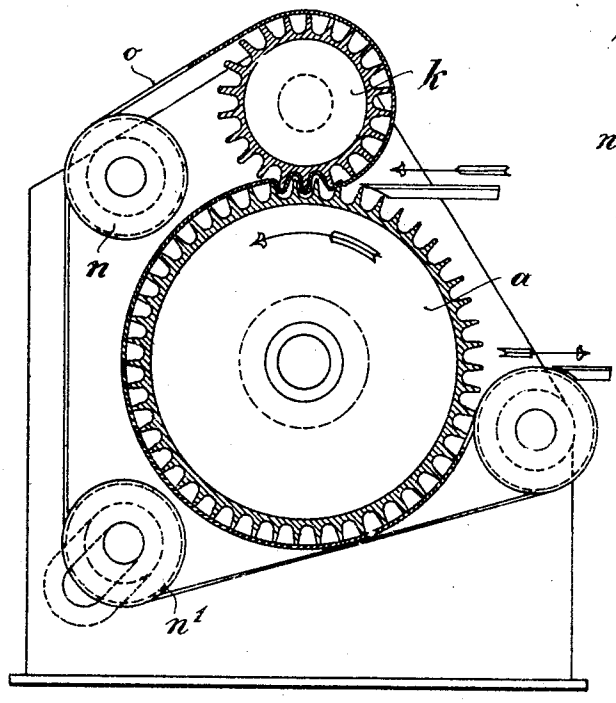
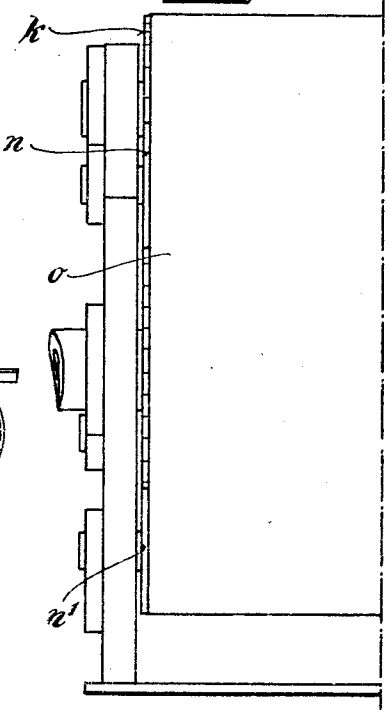


Fig. 2.



Witnesses.
Thomas H. Talbot
Frank H. Hardy

Inventor
Edward Wolff

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UNITED STATES PATENT OFFICE.

EDUARD WOLFF, OF HABELSCHWERDT, GERMANY.

MACHINE FOR MAKING CORRUGATED WOOD SLIVER.

SPECIFICATION forming part of Letters Patent No. 785,786, dated March 28, 1905.

Application filed March 25, 1904. Serial No. 200,014.

To all whom it may concern:

Be it known that I, EDUARD WOLFF, a subject of the German Emperor, residing at Habelschwerdt, in the Province of Silesia, Germany, have invented certain new and useful Improvements in Machinery for Making Corrugated Wood Sliver; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a machine by means of which corrugated wood sliver can be rapidly made, and comprises corrugating and drying cylinders or drums, means for preventing fracture or tearing of the fiber when passing between the corrugating-cylinders, and means for keeping the sliver in the corrugated form imparted thereto until the wood is thoroughly dried. The corrugated sliver thus produced retains its form permanently.

In the accompanying drawings, Figure 1 is a sectional elevation of a machine constructed according to this invention, and Fig. 2 is an end elevation.

A drying and corrugating drum *a*, formed with longitudinal grooves in its peripheral surface, is mounted between suitable standards or end frames and rotated in the direction of the arrow by any suitable means. A corrugating-roll *k* engages with the grooves in the corrugating and drying drum and serves to press the sliver into the grooves of the drum. An endless apron made of cloth or other yielding material runs over the corrugating-roll *k* and the guide-rollers *n*, (one of which rollers—viz., *n'*—serves to adjust the tension,) as well as over three-fourths of the circumference of the heated cylinder *a*. This apron *o* is introduced between the cylinder *k* and the drying-cylinder *a* and passes between the cylinders *a* and *k* with the sliver that is to be pressed. Immediately after leaving the cylinders *k n* it lies closely against the circumference of the drum *a*, and thus presses the sliver into the grooves in the drum *a*. Thus with this device any distortion of the sliver during the drying process after the corrugated form has been given to it is entirely prevented.

By the employment of the apron the wood sliver is protected from fracture when passing between the corrugating-rolls, the apron acting as a cushion between the sliver and the corrugating or pressing roll *k*, so that the pressure is transmitted from the yielding material of the apron to the sliver. In this manner any tearing or breaking of the fiber is prevented.

What I claim, and desire to secure by Letters Patent, is—

1. In a machine for corrugating wood sliver, the combination with corrugating cylinders or drums, of an apron arranged to pass with the sliver between the corrugating-cylinders to form a cushion between the sliver and the corrugating or pressing roll to prevent tearing or breaking of the fiber, and means for guiding the apron so that it embraces the major portion of the periphery of the drying-drum and retains the sliver in the grooves of the drying-drum, substantially as described.

2. A machine for corrugating wood sliver, comprising a drying and corrugating drum grooved longitudinally, a roll adapted to press the sliver into the grooves of the drying-cylinder to corrugate it, an endless apron arranged to travel with the sliver between the drying and pressing cylinders and to retain the sliver in the grooves of the drying-cylinder after being acted upon by the pressing-cylinder, and guide-rollers arranged to hold the apron in contact with the drying-cylinder over a greater portion of its circumference.

In testimony whereof I have affixed my signature in presence of two witnesses.

EDUARD WOLFF.

Witnesses:

BRUNO HÖRLNY,

ERNST KATZ.